## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 31 December 2003 (31.12.2003)

## (10) International Publication Number WO 2004/000781 A3

- (51) International Patent Classification<sup>7</sup>: C07C 323/49, 317/22, C07D 231/12, C07C 311/08, A61K 31/235, 31/415
- (21) International Application Number:

PCT/EP2003/006502

- (22) International Filing Date: 20 June 2003 (20.06.2003)
- (25) Filing Language:

English

(26) Publication Language:

**English** 

(30) Priority Data: MI2002A001391

25 June 2002 (25.06.2002)

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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

- with international search report
- (88) Date of publication of the international search report: 14 October 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NITROOXYDERIVATIVES OF CYCLOOXYGENASE-2 INHIBITORS

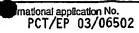
(57) Abstract: New compounds able to release COX-2 inhibitors and NO having formula (I):M-T-YA-NO2 (I) for the treatment and/or prophylaxis of inflammatory processes.

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07C323/49 C07C ĈĠŦĊ317/22 C07C311/08 A61K31/235 C07D231/12 A61K31/415 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) C07C C07D A61K IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, CHEM ABS Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category \* 1,2,5, WO 98 09948 A (NICOX SA) 11,12, 12 March 1998 (1998-03-12) 14,15, 19-23 page 7, lines 1-15; pages 23-25, V Ac1-Ac5; page 31, line 8 - page 33, line 2; page 38, line 21 - page 42, line 22; page 45, line 6 - page 49, line 15 1,2,5, Y 11-13, 20-23 1,2,5, WO 96 25405 A (G.D. SEARLE & CO) Y 11-13, 22 August 1996 (1996-08-22) 20-23 cited in the application page 2, lines 4-8; example 1 Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "I later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the cialmed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 23 01 2004 12 January 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 6818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Van Amsterdam, L

Interplonal Application No
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	ntion) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category *	Citation of document, with Indication, where appropriate, of the relevant passages	Helevan to claim No.
Y	US 5 994 381 A (J. HARUTA ET AL) 30 November 1999 (1999-11-30) cited in the application example 2; column 34, line 65 - column 35, line 13 & WO 96 19463 A 27 June 1996 (1996-06-27) cited in the application & EP 0 826 676 A 4 March 1998 (1998-03-04) cited in the application & EP 0 745 596 A 4 December 1996 (1996-12-04) cited in the application & US 5 945 539 A 31 August 1999 (1999-08-31) cited in the application	1,2,5, 11-13, 20-23
Α .	WO 01 45703 A (NITROMED INC) 28 June 2001 (2001-06-28) page 1, lines 8-20; page 94, line 30 - page 104, line 4; examples 1, 2, 4-6, 8, 9, 18-20	1,11-23
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Box I Observations where certain claims were found unsearchable (Continuation of	item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2	2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
Claims Nos.:     because they relate to parts of the International Application that do not comply with the prescrit an extent that no meaningful International Search can be carried out, specifically:     see FURTHER INFORMATION sheet PCT/ISA/210	oed requirements to such
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and thin	rd sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of firs	t sheet)
This International Searching Authority found multiple inventions in this international application, as follows:	vs:
see additional sheet	
As all required additional search fees were timely paid by the applicant, this International Search searchable claims.	ch Report covers all
As all searchable claims could be searched without effort justifying an additional fee, this Author of any additional fee.	ority did not invite payment
3. As only some of the required additional search fees were timely paid by the applicant, this Intercovers only those claims for which fees were paid, specifically claims Nos.:	mational Search Report
4. No required additional search fees were timely paid by the applicant. Consequently, this Intern restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	ational Search Report is
Remark on Protest  The additional search fees were accompanied the payment of an	

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

### Continuation of Box I.2

Present claim 1 relates to an extremely large number of possible compounds. In fact, the claim contains so many options, variables and provisos that a lack of clarity (and conciseness) within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claim impossible. The search has been guided by those parts of the application which do appear to be sufficiently clear (and concise), namely examples 1-5 and claims 2-10. The search has mainly related to compounds of formula I, wherein

M-T = is the residue of a COX-2 selective inhibitor as defined in claim 5 b0 = 0 and c0 = 1; TC = as defined in claim 1; Y = d) -R10-, in which R1 is straight or branched C1-C6 alkylene (cf. claim 1 vs. claim 2), e) as defined in claim 2 or g) as defined in claim 2.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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